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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Rubber -- Guide to the calibration of test equipment

橡胶 试验设备校准指南

(English Translation)

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Foreword

This standard is equivalent to international standard ISO 18899:2004 "Rubber Test Equipment Calibration Guide" (in English).

This standard is equivalent to translate ISO 18899:2004.

For ease of use, this standard made the following editorial changes.

- a) "this International Standard" by "this standard";
- b) Remove international standards foreword.

Appendix A of this standard is an informative annex.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the national Common test methods for rubber and rubber goods Technical Committee of Standardization Technical Committee centralized.

1 Scope

This standard establishes the principle of calibration, it gives a measure of the comprehensive requirements traceability guide, but also established a calibration interval and measurement are not the basic principles of assessing degree of certainty.

The calibration method of various parameters of the rubber test equipment references corresponding to the relevant standards.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 19000 Quality management systems - Fundamentals and vocabulary (GB/T 19000-2008, ISO 9000:2005, IDT) GB/T 19022 Measurement management systems for measurement processes and measuring equipment (GB/T 19022-2003, ISO 10012.

2003, IDT)

GB/T 27025 testing and calibration laboratories General requirements (GB/T 27025-2008, ISO 17025:2005, IDT)

3 Terms and Definitions

Terms and definitions GB/T 19000 and GB/T 19022 for the establishment of units of measurement and the following terms and definitions apply to this standard.

Note: The terms and definitions of the standard terms and definitions GB/T 15000.2 given consistent.

Calibration to determine the magnitude of the measuring instrument indicated by corresponding reference instrument by reproducing a set of actions between magnitude.

Verify verification

For measuring or testing equipment for specific test or calibration and make it in a predetermined allowable error limits.

Metrological confirmation to ensure the measuring equipment meets the requirements of a set of operations required for the intended use.

Calibration System Quality system, including calibration of test equipment, measurement and confirm any valid reference section.

4 Principle of calibration

Metrological confirmation generally includes calibration and the necessary adjustments, repair and subsequent recalibration, seal or label. It can also include confirmation Verify that a test instrument a characteristic value, such as a length value. In common terms, the whole confirmation process is believed to be calibrated real A service performed by the laboratory, often conduct the calibration of test equipment is designed to provide more appropriate metrological confirmation to ensure that it complies with the Claim.

Calibration is based on this principle. The reference standard (sometimes called transfer standard) measured values \u200b\u200bwith other measurement into Comparing. Transfer calibration values \u200b\u200bfrom internationally recognized standards to a nationally recognized standard (often called primary standards), a series of sub-standard or Transfer standard to measure or test equipment, in order to pass. Measurement traceability through the unbroken chain of calibrations or comparisons with the corresponding chain primary level